ViewPoint

VPx-Configuration and Analysis Tool (VCAT)

User's Manual

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1.0 Table of Contents

2.0 Introduction

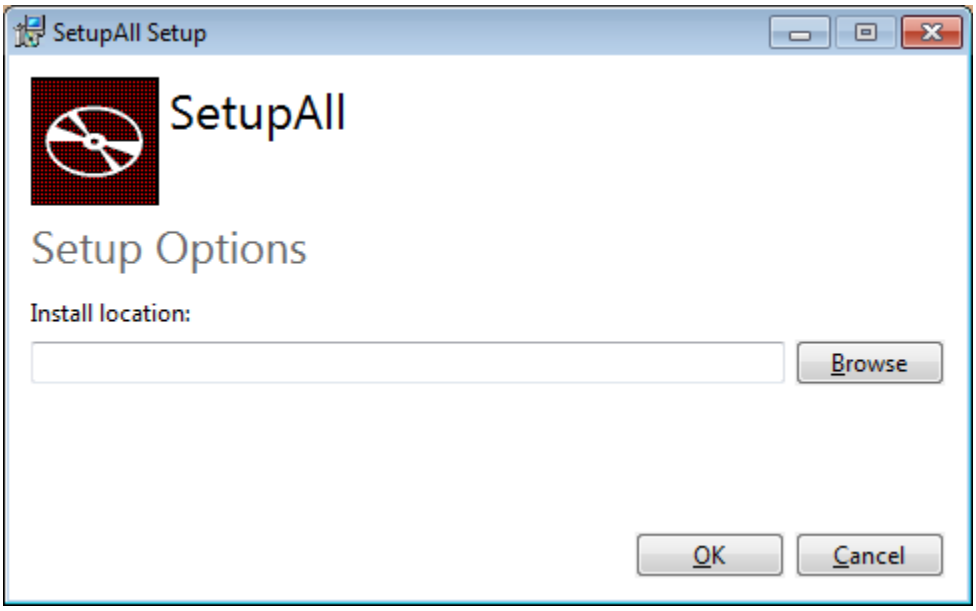
The VPx Configuration and Analysis Tool (VCAT) can be used to configure the following settings on a VPx Sensor:

- 900 MHz- Radio type, Network ID, Hop Table Index, and Preferred Link Partner.
- Wi-Fi -SSID, Passphrase, Server ID, and other network Settings.
- Upgrade Firmware.

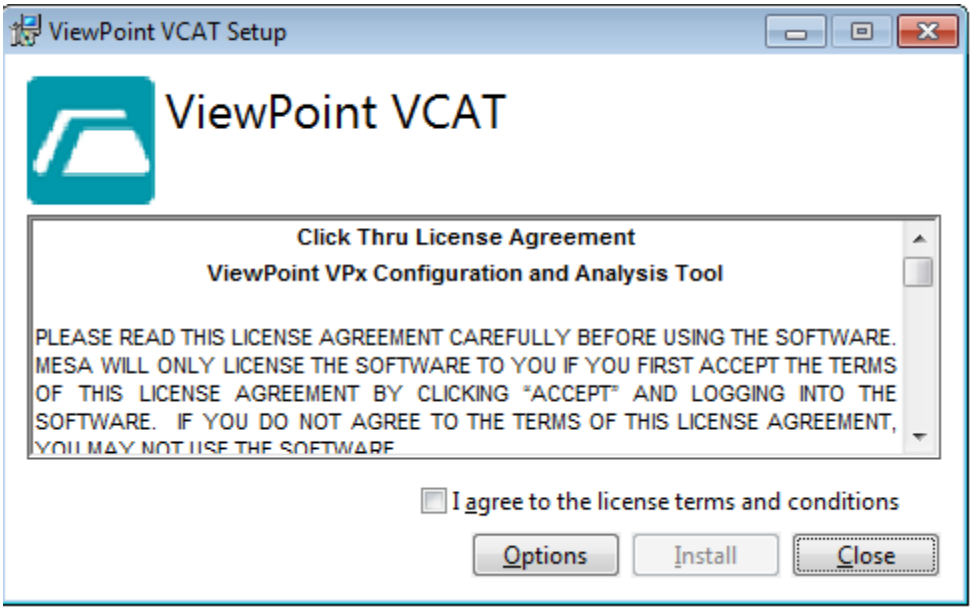
3.0 Installation

Run the VCAT_installer.exe.

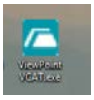
If the application is to be installed anywhere other than in the normal location Select the option and choose the location that it is to be installed.



Select the box, agreeing to the license terms and conditions, and click “Install”.



Installation is complete and a Shortcut has been created on the Desktop.



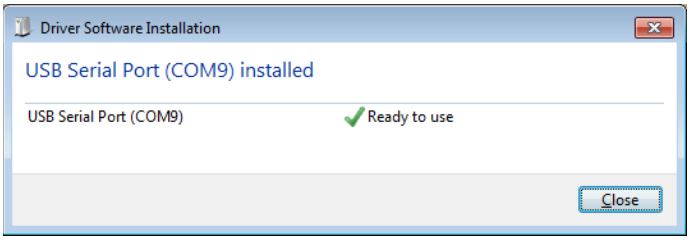
4.0 Setup

In order to use theVCAT, you will need:

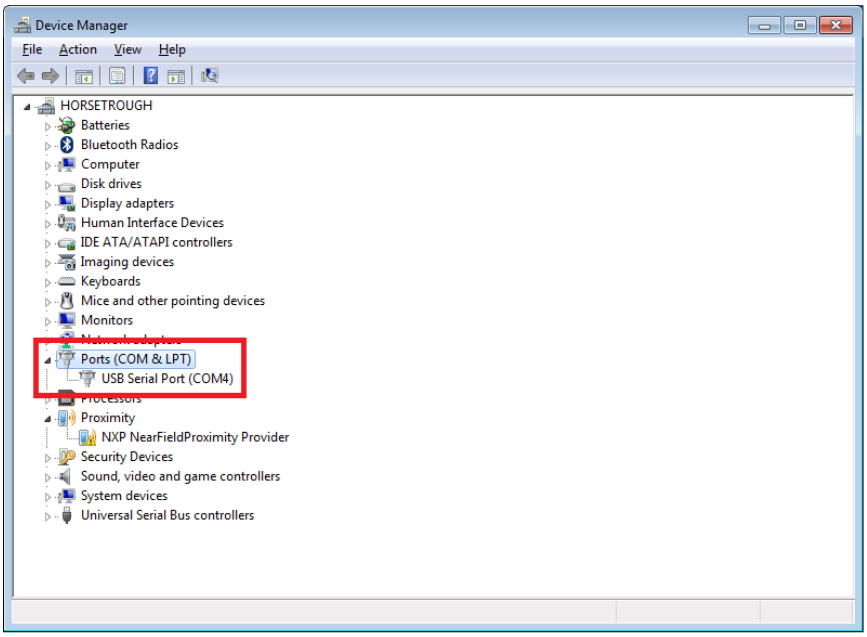
- CM-000175 – Cable, VPx USB Serial Programming.
- VPx Sensor (Any type).

Plug CM-000175 into an available USB port (device drivers will install for first time use) and to the VPx Sensor.

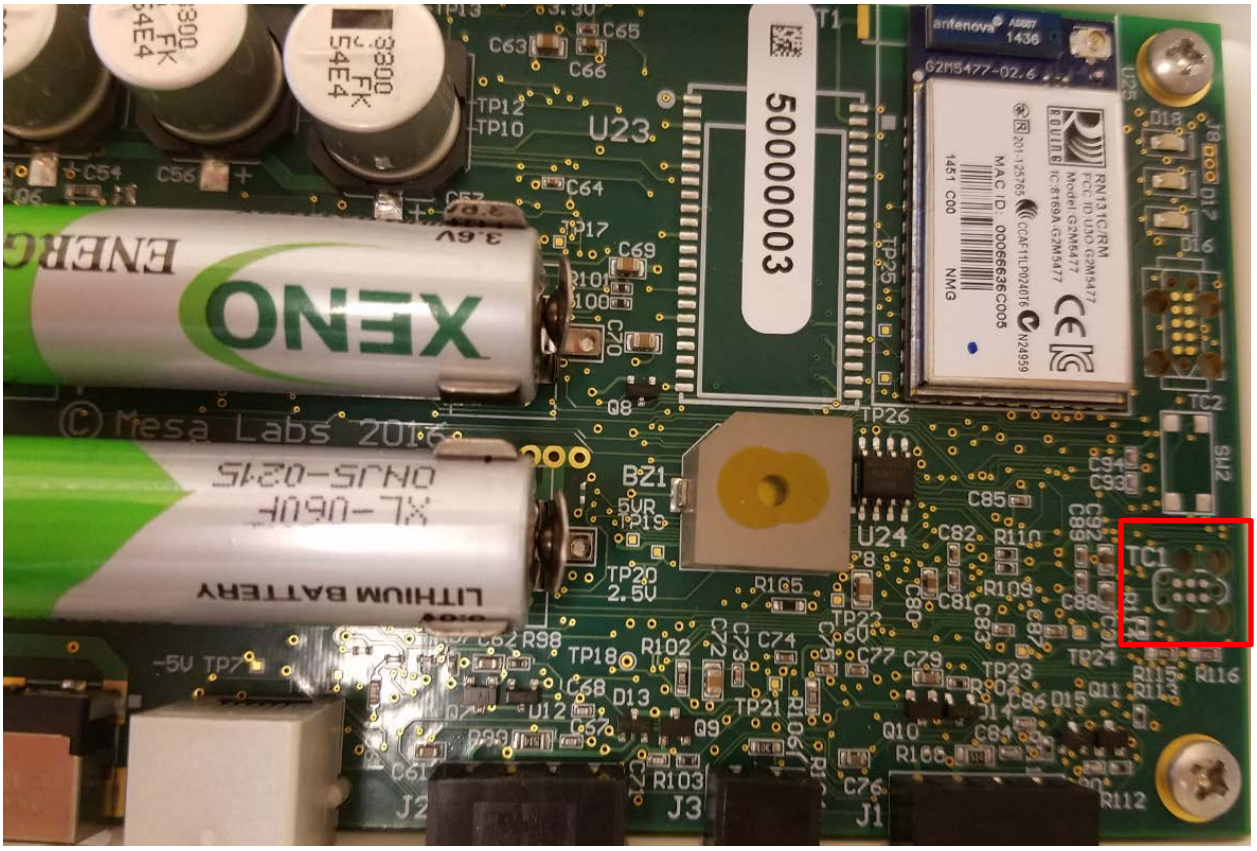
Determine the COM Port for the CM-000175. To confirm the COM Port being used by CM-000175, open Device Manager by selecting Start → Control Panel → Device Manager.



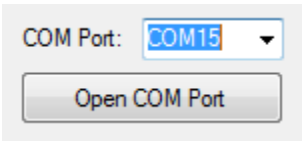
CM-000175 will be listed under “Ports (COM & LPT)”.



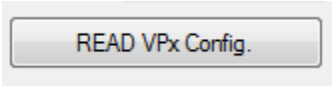
Plug CM-000175 into the VPx Sensor Board.



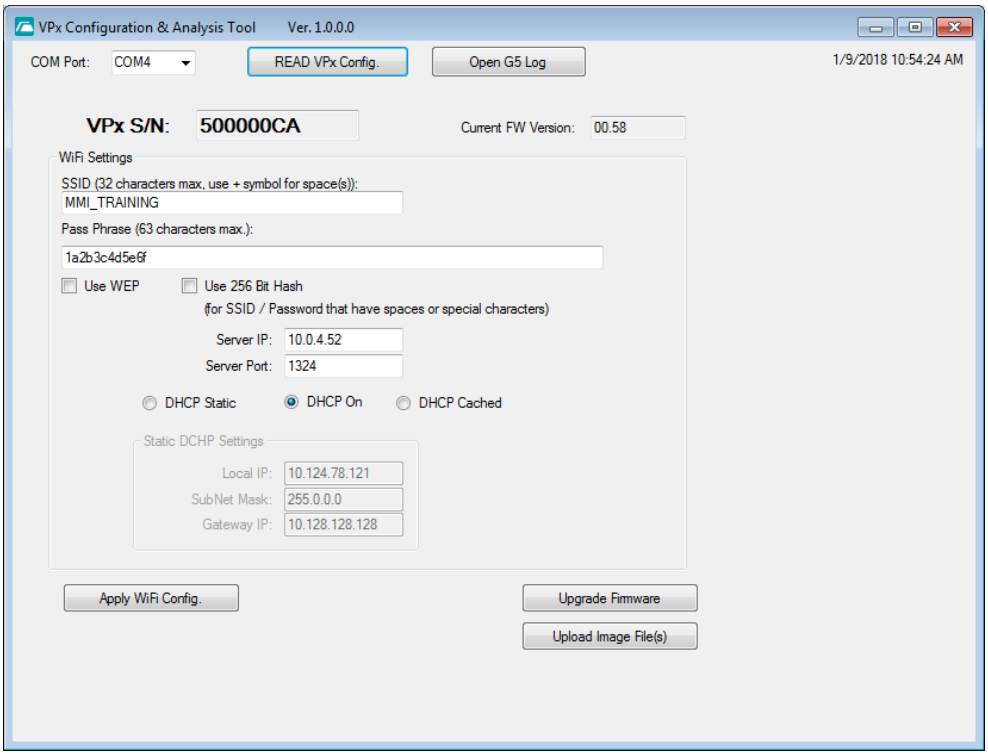
Launch the VCAT. In top left select the correct COM Port and then press the “Open COM Port” button.



When the Comm. Port is opened, press the READ VPx Config Button.



This will expand the window to show:



The VPx Sensor is now properly connected to the VCAT.

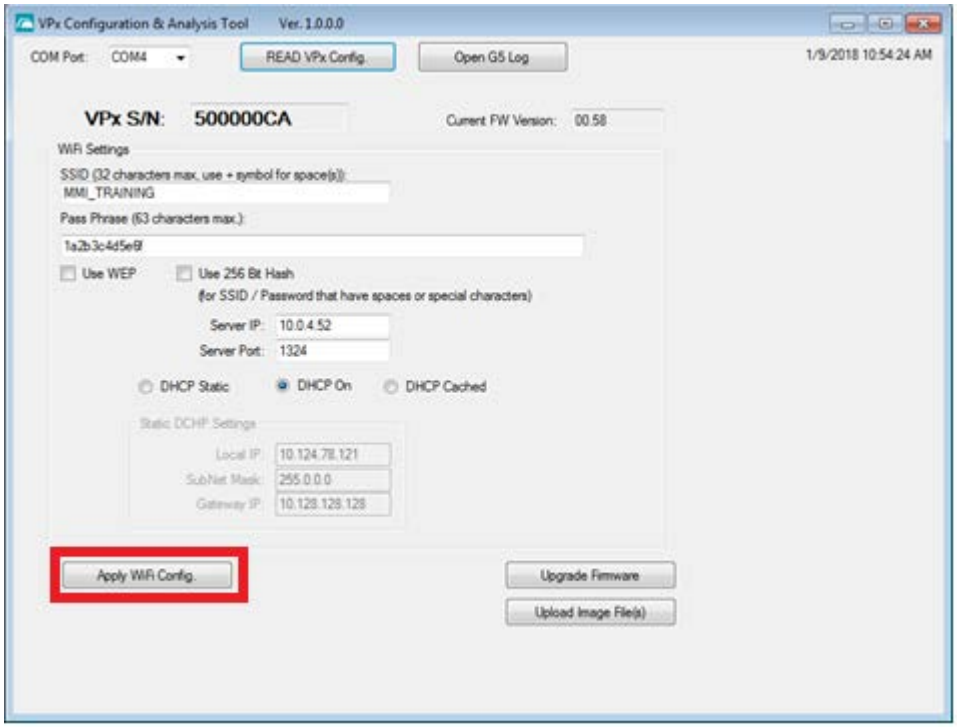
5.0 Utility

5.1 Basic

Basic configuration of the VPx Sensor can be done from the main screen.

5.1.1 Wi-Fi / Radio.

From the main tab, the VPx Sensor can be configured with **Wi-Fi.**



- **SSID** – (Service Set Identifier) a series of 0-32 octets used as an identifier for a wireless LAN.
- **Pass Phrase** – used to control access to SSID.
- **Use WEP** – (Wired Equivalent Privacy) Wireless security algorithm.
- **Server IP** – ViewPoint Server IP address.
- **Server Port** – Port in which VPx communicates with ViewPoint server.
- **DHCP Static** – IP address assigned to device (does not change).
- **DHCP On** – (Dynamic Host Configuration Protocol) client/server protocol that automatically provides an IP address, subnet mask and default gateway.
- **DHCP Cached** – Receives IP address from DHCP server, before the lease expires, the DHCP server must renew the lease for the client.

After the changes have been made, click Apply.

900 MHz

- **Radio Type** – Type of radio utilized by VPx sensor.
- **Network ID –** Network (Net) ID, used to allow sensors to connect with host device (Access Point).
- **Hop Table Index –**

- **Standard and Mobile Access –** Standard 900 MHz radio configuration (902-928 MHz ISM band).
- **Mobile Access –** 905.6-923.6 MHz.
- **Spectra Link Lower Band –** 905.2-914 MHz.
- **Spectra Link Upper Band –** 914.75-926 MHz.
- **Test Constraint –** Used for testing purposes only.

- **Preferred Link SN –** SN of static Link Partner.

After the changes have been made, click Apply.

5.1.2 Firmware Upgrade.

The Firmware Upgrade files will be provided from the Mesa Service Dept.

From the main page, the firmware and the images on the files can be upgraded using the Upgrade Firmware and the Upgrade Images buttons: